

INFORMATION REPORT INFORMATION REPORT

CENTRAL INTELLIGENCE AGENCY

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SECRET

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COUNTRY	East Germany	REPORT	
SUBJECT	IFF Equipment Development at Radio Merchants Development Plant II	DATE DISTR.	19 APR 1962
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REPORT

COUNTRY : East Germany

DATE DISTR. 21 MAR. 62

SUBJECT : IFF Equipment Development at Radio
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1. From the beginning of 1956 to the middle of 1957 Radio Mechanics Development Plant II (VEB Entwicklungswerk Funkmechanik) in Leipzig-Flagwitz worked on the development of an Identification-Friend-or-Foe (IFF) radar equipment. During the year 1956 the whole plant was in a stage of reorganization and at this time the radar development section was transferred from the main plant on Wachsmuth Strasse in Leipzig-Flagwitz to Plant II on Mahlmann Strasse. The development group working on the IFF radar, which was headed by Robert Schoss, Chief of the IF-Laboratory, EM-12, and included four engineers, one technician, and two mechanics, was also transferred.
2. Technical Characteristics. The IFF equipment was developed for installation on ships and was to be used for the recognition of friendly vessels. [redacted] 50X1-HUM [redacted] the equipment had no capability of displaying echo returns or any return except a properly coded IFF reply. The equipment was too heavy for airborne use and therefore could not be used for aircraft identification purposes. The equipment was required to have a 50 kilometer range, five 50X1-HUM codes, and suitability for shipboard use on the high seas. The technical group chose a frequency of 254 megacycles for interrogation, 274 megacycles for reply, a pulse repetition frequency of 230 cycles, and a pulse length of about 2 microseconds with a peak power output of one kilowatt. The 50X1-HUM intermediate frequency of the receiver was 20 megacycles. Details of the antenna were unknown [redacted]
3. Two of the IFF radars were built and successfully tested. The first tests 50X1-HUM were made toward the end of 1956 at Koenigsstuhl on Ruegen Island. The second tests were held in September 1957 at Warnemuende. [redacted] the equipment was never put into production and therefore could not be in operational use. 50X1-HUM

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